

REMARKS

By this preliminary amendment, originally filed claims 1-4 and 11 have been amended. Claims 1-15 are still pending in the application. Attached hereto is a marked-up version of the changes to the claims by the current amendment. The attached pages are captioned "Version With Markings to Show Changes Made".

Applicants submit that the amendments to the claims are not being made for any reason relating to patentability. In particular, the originally filed claims as well as those amended herein are believed to meet all statutory requirements for patentability.

Accordingly, consideration of this application is respectfully requested. Any questions can be directed to the Applicants' attorney at the number below.

Respectfully submitted,

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In the Claims:**Amend** claim 1 as follows:

1. (Amended) A method for transmitting channel quality information in a wireless communication system comprising at least one base station and at least one mobile station, the 5 method comprising:

varying a rate for reporting channel quality information from a mobile station to a base station as a function of the presence or absence of a reception of a transmission [from the base station to] at the mobile station.

10 **Amend** claim 2 as follows:

2. (Amended) The method according to claim 1, wherein the mobile station reports channel quality information at a first rate in the absence of a reception of a transmission from the base station and at a second rate in the presence of a reception of a transmission from the base station.

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Amend claim 3 as follows:

3. (Amended) The method according to claim 1, wherein the mobile station reports channel quality information at a first rate in the absence of a reception of a transmission from the base station and, upon detection of a reception of a transmission from the base station, 20 the mobile station reports channel quality information at a second rate for a prescribed duration.

Amend claim 4 as follows:

4. (Amended) The method according to claim 1, wherein the mobile station reports channel quality information at a first rate in the absence of a reception of a transmission from the base station and, upon detection of a reception of a transmission from the base station, 25 the mobile station reports channel quality information at a plurality of rates over a prescribed time period after detection of the reception of a transmission, wherein the plurality of rates are different than the first rate.

Unchanged claim 5:

5 5. The method according to claim 4, wherein the prescribed time period includes a plurality of time intervals such that the channel quality information is reported at one of the plurality of rates during one of the plurality of time intervals.

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Unchanged claim 6:

6. The method according to claim 2, wherein the second rate is faster than the first rate.

10 **Unchanged claim 7:**

7. The method according to claim 6, further comprising the step of estimating channel quality at the base station while the mobile station is reporting at the second rate, wherein estimated channel quality is used to derive a transmission format for a subsequent transmission.

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Unchanged claim 8:

8. The method according to claim 7, wherein the transmission format includes one or more parameters selected from the group consisting of modulation format, number of codes, and transmission rate.

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Unchanged claim 9:

9. The method according to claim 6, further comprising the step of estimating channel quality at the base station while the mobile station is reporting at the second rate, wherein estimated channel quality is used to calculate an amount of redundancy needed for a retransmission of a previous transmission.

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Unchanged claim 10:

10. The method according to claim 1, wherein the channel quality information comprises a transmission rate calculated by the mobile station based on one or more channel conditions.

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Amend claim 11 as follows:

11. (Amended) A method for adapting the rate of reporting channel quality information in a wireless communication system including at least one base station and at least one mobile station, the method comprising:

5 reporting channel quality information from the at least one mobile station to the at least one base station at a first rate in the absence of a reception of a transmission [from the at least one base station to the] at the at least one mobile station; and

10 in the presence of a reception of a transmission [from the at least one base station to the] at the at least one mobile station, adapting the rate for reporting channel quality information from the at least one mobile station to the at least one base station from the first rate to a second rate.

Unchanged claim 12:

12. The method according to claim 11, wherein the second rate is faster than the first

15 rate.

Unchanged claim 13:

13. A method for transmitting channel quality information in a wireless communication system including at least one base station and at least one mobile station, the 20 method comprising:

varying a rate for reporting channel quality information from a mobile station to a base station as a function of the number of base stations that the mobile station is communicating with.

25 **Unchanged claim 14:**

14. The method according to claim 13, wherein the mobile station reports channel quality information at a first rate when the mobile station is communicating with one base station and wherein the mobile station reports channel quality information at a second rate when the mobile station is communicating with a plurality of base stations.

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Unchanged claim 15:

15. The method according to claim 14 wherein the second rate is faster than the first rate.